LISTING OF THE CLAIMS

Please amend the Claims as shown below:

1.   A method for applying multi-resolution boundary encoding to region based still image and video encoding, comprising:

dividing an original image into a plurality of regions, wherein a plurality of boundaries associated with the plurality of the regions is detected;

encoding each of the plurality of the boundaries, whereby each of the plurality of the boundaries contains different resolution coefficients;

decomposing each of the plurality of the regions in the original image into one or more subbands using ~~the~~ a plurality of the boundaries with the highest resolution coefficients <u>selected from among the plurality of boundaries that are detected</u>;

successively decomposing each of the plurality of the regions in a subband with lower resolution coefficients into one or more subbands using the plurality of the boundaries with lower resolution coefficients;

transmitting boundary information associated with regions of the original image and image information with the lowest resolution coefficients; and

successively transmitting boundary information associated with regions of the original image and image information with higher resolution coefficients.

11.   An apparatus for applying multi-resolution boundary encoding to region based still image and video encoding, comprising:

means for dividing an original image into a plurality of regions, wherein a plurality of boundaries associated with the plurality of the regions is detected;

means for encoding each of the plurality of the boundaries, whereby each of the

plurality of the boundaries contains different resolution coefficients;

means for decomposing each of the plurality of the regions in the original image

into one or more subbands using ~~the~~ a plurality of the boundaries with the highest

resolution coefficients <u>selected from among the plurality of boundaries that are detected</u>;

means for successively decomposing each of the plurality of the regions in a

subband with lower resolution coefficients into one or more subbands using the plurality

of the boundaries with lower resolution coefficients;

means for transmitting boundary information associated with regions of the original

image and image information with the lowest resolution coefficients; and

means for successively transmitting boundary information associated with regions of

the original image and image information with higher resolution coefficients.

14. A computer readable medium providing instructions for applying multi-resolution

boundary encoding, to region based still image and video encoding, the instructions

comprising:

dividing an original image into a plurality of regions, wherein a plurality of

boundaries associated with the plurality of the regions is detected;

encoding each of the plurality of the boundaries, whereby each of the plurality of

the boundaries contains different resolution coefficients;

decomposing each of the plurality of the regions in the original image into one or

more subbands using ~~the~~ a plurality of the boundaries with the highest resolution

coefficients <u>selected from among the plurality of boundaries that are detected</u>;

successively decomposing each of the plurality of the regions in a subband with

lower resolution coefficients into one or more subbands using the plurality of the

boundaries with lower resolution coefficients;

transmitting boundary information associated with regions of the original image and

image information with the lowest resolution coefficients; and

successively transmitting boundary information associated with regions of the original

image and image information with higher resolution coefficients.